



COLOSSAL 117-UFA9912 Universal Flooring Adhesive 99% RH, 12pH

PRODUCT DATA SHEET

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1. PRODUCT NAME

Colossal 117-UFA9912 Universal Flooring
Adhesive 99%RH 12ph

2. DESCRIPTION

Laminin Colossal 117-UFA9912 is formulated for the installation of dimensionally stable LVT Tile & Vinyl Plank (including foam-backed tile and plank), carpet tile (including PVC and olefin-backed), VCT, quartz tile, bio-based tile, fiberglass-backed sheet flooring and vinyl backed resilient sheet flooring. Colossal 117-UFA9912 is CRI Green Label Plus Certified, and is SCAQMD 1168 compliant.

Key Features and Benefits

- Ultra-aggressive pressure sensitive adhesive
- High tack and robust adhesion
- Immediate foot traffic after dry-set installation
- Moisture tolerance on concrete up to 99% RH
- Long working time – Up to 12 hours
- Ideal for LVT/LVP – including difficult foam back planks
- Also bonds carpet tile, VCT, and vinyl sheet goods
- Low VOC

Packaging

1 quart plastic pail (946 mL)

Product #15036437

1 gallon plastic pail (3.78 L)

Product #10008895

4 gallon plastic pail (15.13 L)

Product #10008611

Coverage

Determine recommended trowel size based on flooring type. Coverage will vary with the absorption of substrate and trowel size. Figures below are presented only as guidelines.

Substrate/Flooring Type	Recommended Trowel Size	Approximate Coverage*
Porous substrates	$\frac{1}{16}" \times \frac{1}{16}" \times \frac{1}{16}"$ (1.6 x 1.6 x 1.6 mm) Square-notch trowel	125-175 ft ² /gal. or 14-20 yd ² /gal. (12-16 m ² /3.78 L)
Non-Porous substrates	$\frac{1}{16}" \times \frac{1}{32}" \times \frac{1}{32}"$ (1.6 x 0.8 x 0.8 mm) U-notch trowel	175-250 ft ² /gal. or 19-28 yd ² /gal. (16-23 m ² /3.78 L)
Cushion-Backed or Fiber Glass-Backed Sheet Vinyl / Smooth-Backed Vinyl or Non-PVC Carpet Tile	$\frac{3}{8}"$ Nap roller	250-350 ft ² /gal. or 27-38 yd ² /gal. (23-32 m ² /3.78 L)

*If recommended spread rate is exceeded, a loss of bond may occur.

Recommended Applications

- Residential
- Light & Heavy Commercial
- Healthcare
- Institutions

- Concrete
- Portland Based Underlay
- Cork Underlayment
- Properly Prepared Gypsum
- APA Approved Plywood
- Terrazzo
- Fiber Cement Underlayment
- Radiant Heated Subfloors
- Properly Prepared VCT (Single Layer)
- Properly Prepared Sheet Vinyl (Single Layer, fully adhered)

Substrate Preparation

Follow flooring manufacturer's guidelines for allowable levels of concrete moisture content. Concrete substrate must be cured at least 28 days and prepared in accordance with ASTM F710. All concrete slabs must have an intact vapor barrier per ASTM E1745.

Moisture tests are required on concrete subfloors. Moisture testing should be performed by ASTM F2170 In Situ Relative Humidity Test with readings not to exceed ninety-nine (99) percent or ASTM F1869 Calcium Chloride Test with MVER not to exceed twelve (12) lbs. per one thousand (1,000) square feet per twenty-four (24) hours. The maximum pH levels should not exceed a reading of 12.

Storage

Store at a moderate room temperature. Protect adhesive from freezing. Refer to the Technical Data section of this PDS, for more information.

Shelf Life

Maximum of 2 years from date of manufacture in unopened container.

Limitations

- For interior installations only.
- Flooring must be acclimated per manufacturer's instructions.
- Do not install when the concrete RH is over 99%, per ASTM F2170.
- Do not install when MVER is over 12 lbs. per 1,000 ft² per 24 hours, per ASTM F1869.
- Although Colossal 117- UFA9912 is a moisture tolerant adhesive, it does not form a moisture vapor barrier and will not protect flooring from moisture damage. Use of a moisture mitigation product may require for higher moisture content concrete.
- Do not install when the pH is greater than 12.
- Install only when the substrate temperature is between 50° and 90°F (10°-32°C).
- Do not install into wet adhesive over nonporous substrates.
- Do not apply over adhesive residues.
- The dimensional stability of some vinyl flooring is very sensitive to fluctuations in ambient environment conditions. Laminin Industries is not responsible for installation issues caused by dimensional changes in flooring.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.



4. TECHNICAL DATA

Physical Properties

Colossal 117-UFA9912 Universal Flooring Adhesive	
Description	
Base Polymer	Acrylic Polymer
Color	Light Straw
VOC Content	<1 gram per liter
pH	7.25
Consistency	Paste
Shelf Life	Two years in unopened container.
Storage	40°-95°F (4°-35°C)
Application Temperature	50°-90°F (10°-32°C)
Traffic Restrictions	Foot Traffic after 12 hours and Heavy Traffic after 24 hours for Wet-Set. Light Foot Traffic allowed immediately after rolling and Heavy Traffic after 12 hours for Dry-Set.
Open Time	Up to 12 hours depending on porosity and environmental conditions
Freeze/Thaw Stability	5 cycles at 20°F (-7°C)

5. INSTALLATION INSTRUCTIONS

Application

1. Refer to all manufacturer's recommendations and approvals prior to installation.
2. For Indoor Use Only.
3. Read this Product Data Sheet and SDS thoroughly prior to installation.
4. For best results, install at 70°F [21°C] (+/- 5°) and 50% R.H. (+/-5%).
5. For proper trowel selection see Coverage section on this document.
6. Spread adhesive using the recommended trowel. When installing over a porous substrate, the flooring can be laid into wet or tacky dry adhesive. For a wet-lay installation, spread the adhesive, wait approximately 10-15 minutes to allow the adhesive to flash off. Laying in wet will allow for movement of the flooring until adhesive has set and will result in a permanent installation. Flooring will not be able to be removed without significant damage to the flooring when using the wet-set method. When installing tile or vinyl plank, it is recommended to let the adhesive become tacky dry to the touch before installing. Once the adhesive has become tacky dry, flooring should be installed within 12 hours. When using the tacky dry installation method, repositioning time will be limited. The dry time will depend on the temperature & humidity of the environment. Within 1 hour of placing the flooring into the adhesive, you MUST roll the entire installation with a 100 lb. three-section roller to assure adhesive has made proper contact with flooring.

Clean-up

Remove wet adhesive immediately with a damp cloth. Use Mineral Spirits to remove dried adhesive. **CAUTION: Mineral Spirits are flammable. Read and follow all precautions on container label.**

6. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **Laminin Industries disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product.** For more information, contact your Laminin representative.

7. MAINTENANCE

Not applicable

8. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at lamininindustries.com

10. FILING SYSTEM

Division 9



Conforms with LEED v4 low emitting interiors.
Compliant with (CDPH) Standard Method v1.2 VOC Emissions.